

Fermilab Fermi National Accelerator Laboratory Technical Division-Machine Shop

Welder Performance Qualification Record

Welder's Name				L	Daniel Wa	itkins				FNAL#		03991N		A	ASME#		24	
Welding Process:			1st	GT	4W '	Гуре	Manu	Manual		2nd				Ту	Гуре			
Performed in	Performed in accordance with: Fermi WPS SS-11-001																	
Joint:	Fillet:				1		Production	Weld			To	st Coupo	n					
Groove:		Double Welded:				No	100000000	** OPG	resi Coup			or compo	**					
Single Welded:			Yes Met	al Fused		Metal Non	tal Non Fused			Von Metal Open				Root Consumable Insert				
					lid Back	Without	out Solid Backing Square Groove Butt											
Base Metal: Specification SA213, Type 304/304L TO SA213, Type 304/304L ASME P #8 Gp1 TO ASME P #8, Gp1																		
Base Metal:		ication	SA	213, Туре	SA213	SA213, Type 304/304L									. <i>Gp1</i>			
Plat				1	D'		Overall Diamete				Tube							
7101000			nınal L Schedi	Diameter:	-		Diameter: ied Thicknes				Wall:			\dashv	0.125"Ø 0.028"			
				ickness:	+		ied Diameter		+	\dashv	Qualified Thickness						6"	
		7100	Jul 1111	ioniioss.	CSS. Qualified Diameter No.					Qualified Diame								
Filler:		rocess		2 nd Process														
				lass: 308/308L					Specification: Class:									
Diameter(s): 0.035"Ø							Diameter(s):											
F#: 6							F#:											
Deposit Thickness: 0.028"				ge Qualifi	cation: 0.	028"-0.	.056"	Deposi	t Thickness:				Range Qualification:					
Welding Position: If Vertical: Up —Down																		
Gas (Type & Composition:				Shielding		I DOED	Root Side Backing				ng i	Argon	99.999	6				
Electrical Characteristics			\dashv	Type C	urrent f or GMA	AC	DCEP		DCEN Globular			Pulse			Short-Circuit			
				1 rans	I OF GIVIA	W	Spray	41	opura	f		ruise			SHULL CI	rount		
· · · · · · · · · · · · · · · · · · ·						1	Visual Insp	ection										
Appearance:	Sai	isfactor	γ	Underc	ut:		Visually Ot		1	Pipi	ng Po	rosity:	N	one V	isually O	bservi	ed .	
							Guided Ben											
Specimen			Result		Type ar			Results			Type and F					Results		
001: Cross Weld Bo		Base N	Metal	88,200	002; Face Bend 003: Face Bend			Pass-No Visit										
Total Conducted how Known					003: Fa	ace Ben		Pass-No Visible Cra			s 005: Root Bend			Pass-No Visible Cracks			racks	
Test Conducted by: Exova Inc. Lab Test #: T 017736 Date: 10/20/2010																		
						F	Radiograph	ic Test										
Results: Sati	sfactory							er ASMI	E IX-2	2007	,							
Radiographer				Exam		Test				st #: Date			¥*					
							et Weld Te											
Fracture Test: (Location, Nature, and size of Crack or Tear in Specimen)																		
Length of Weld: Length of Defect: Percent of Defect																		
Macro Test: Fusion																		
Appearance: Fillet Size inch X inch																		
Test Conduct	ed by:		-				L	ab Test	#: <u> </u>									
Tr V:6.45	\			N 4	-n-					V.	ri Goot	ion #		l r	Jota:			
Test Verified E Michael Reyno		v	Ш.	white hites				Verific				9102010-1-MR			Date: 9/10/2010			
We certify the	at the state	ements i	in this	record a	re correct	and tha	at the test w	elds were	prep	ared	l, wel	ded, and t	ested ir	1 accor	rdance wi	th the	;	
requirements							ni Nation											
By:					- Elfe	111	/		,				Date:					
Roger Hill	er 00362		loan		00362N					10/20/2010								
				1														

Use of Fermilab Welding Procedures and Welder Qualifications for non-Fermilab work shall be at the sole risk and responsibility of the Subcontractor, and the Subcontractor shall indemnify and save Fermilab and the government harmless from any and all claims, demands, actions or causes of action, and for any expense or loss by reason of Subcontractor's and their employees possession and use of Fermilab procedures and qualifications.